

Table A-29. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by industry and size of company, by type of cost: 2000

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Industry and size of company	NAICS codes	Total R&D costs	Wages of R&D personnel	Materials and supplies	R&D depreciation	Other costs	
		[In millions of dollars]	[Percent]				
Distribution by industry:							
All industries.....	21–23, 31–33, 42, 44–81	199,539	(S) 42.2	(S) 14.1	2.0	(S)	41.7
Manufacturing.....	31–33	124,078	(S) 37.0	(S) 15.0	1.8	(S)	46.2
Food.....	311	(D)	(S) 53.6	(S) 13.4	2.6		30.3
Beverage and tobacco products.....	312	417	(D)	(D)	(D)		37.5
Textiles, apparel, and leather.....	313–16	(D)	36.7	16.8	2.2		44.2
Wood products.....	321	105	(S) 69.3	(D)	(D)		(D)
Paper, printing and support activities.....	322, 323	(D)	(S) 44.7	(S) 13.9	2.0		39.3
Petroleum and coal products.....	324	(D)	(S) 59.5	(S) 7.1	1.3	(S)	32.1
Chemicals.....	325	20,918	34.4	8.2	3.4		54.0
Basic chemicals.....	3251	2,080	(S) 55.6	8.0	4.2	(S)	32.2
Resin, synthetic rubber, fibers, and filament.....	3252	2,852	52.3	(D)	(D)		27.3
Pharmaceuticals and medicines.....	3254	(D)	23.5	7.0	2.8		66.7
Other chemicals.....	325 (minus 3251–52, 3254)	(D)	(S) 52.3	(S) 10.6	(S) 0.9	(S)	36.2
Plastics and rubber products.....	326	(D)	(S) 57.3	17.2	1.6	(S)	24.0
Nonmetallic mineral products.....	327	846	23.5	29.5	(D)		(D)
Primary metals.....	331	624	71.4	(S) 7.0	(S) 1.9	(S)	19.7
Fabricated metal products.....	332	1,672	(S) 55.0	(S) 18.2	0.7	(S)	26.1
Machinery.....	333	6,580	43.4	27.0	2.4		27.2
Computer and electronic products.....	334	45,097	(S) 36.8	(S) 12.4	1.5	(S)	49.3
Computers and peripheral equipment.....	3341	5,162	(S) 31.7	(S) 9.7	1.3		57.3
Communications equipment.....	3342	11,616	(S) 55.5	(S) 24.3	0.7	(S)	19.4
Semiconductor and other electronic components.....	3344	12,894	(S) 45.1	(S) 10.1	3.3	(S)	41.5
Navigational, measuring, electromedical, and control instruments.....	3345	15,116	14.4	(S) 5.6	0.6	(S)	79.4
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	310	60.5	9.3	3.6		26.5
Electrical equipment, appliances, and components.....	335	(D)	47.4	16.7	2.6		33.3
Transportation equipment.....	336	30,085	(S) 35.7	(S) 22.6	0.7	(S)	41.0
Motor vehicles, trailers, and parts.....	3361–63	(D)	(S) 39.4	(S) 27.8	0.9	(S)	31.9
Aerospace products and parts.....	3364	10,319	(S) 28.0	(S) 13.9	(D)		(D)
Other transportation equipment.....	336 (minus 3361–64)	(D)	(S) 45.8	(S) 19.1	(S) 0.4	(S)	34.6
Furniture and related products.....	337	284	(S) 62.6	(D)	(D)	(S)	18.7

See explanatory information and SOURCE at end of table.

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		[In millions of dollars]	[Percent]			
Distribution by industry:						
Miscellaneous manufacturing.....	339	4,206	11.7	2.6	0.6	85.2
Medical equipment and supplies.....	3391	(D)	9.0	2.1	0.4	88.4
Other miscellaneous manufacturing.....	339 (minus 3391)	(D)	43.3	8.0	2.4	46.2
Other manufacturing .....	31-33 (minus 311-16, 321-27, 331-37, 339)	--	--	--	--	--
Small manufacturing companies <sup>1</sup> .....	Fewer than 50 employees	2,643	0.0	0.0	0.0	0.0
Nonmanufacturing.....	21-23, 42, 44-81	75,461	(S) 54.6	(S) 11.9	2.4	(S) 31.1
Mining, extraction, and support activities.....	21	823	50.1	24.1	2.7	23.1
Utilities.....	22	(D)	25.4	25.6	0.0	49.0
Construction.....	23	(D)	(S) 69.9	10.1	1.1	(S) 18.9
Trade.....	42, 44, 45	24,959	50.2	(S) 17.8	3.0	29.0
Transportation and warehousing.....	48, 49	(D)	71.3	0.3	0.0	28.4
Information.....	51	16,830	(S) 65.5	(S) 4.0	1.2	(S) 29.3
Publishing.....	511	13,004	(S) 63.7	(S) 3.4	1.3	(S) 31.6
Newspaper, periodical, book, and database.....	5111	365	60.3	(D)	(D)	(S) 27.7
Software.....	5112	12,639	(S) 63.8	(S) 3.3	1.2	(S) 31.7
Broadcasting and telecommunications.....	513	(S) 1,407	(S) 68.3	(S) 11.0	1.0	(S) 19.7
Radio and television broadcasting.....	5131	(D)	70.0	0.0	0.0	30.0
Telecommunications.....	5133	(D)	(S) 67.9	(S) 13.6	1.3	(S) 17.2
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	59	0.0	0.0	0.0	0.0
Other information.....	51 (minus 511, 513)	2,420	75.3	3.6	0.1	21.0
Finance, insurance, and real estate.....	52, 53	4,025	(S) 78.3	(S) 4.2	(D)	(D)
Professional, scientific, and technical services.....	54	22,577	(S) 45.7	13.3	3.4	(S) 37.6
Architectural, engineering, and related services.....	5413	3,381	(S) 43.8	16.0	3.6	(S) 36.7
Computer systems design and related services.....	5415	5,169	72.9	3.4	1.8	21.9
Scientific R&D services.....	5417	12,892	(S) 39.2	15.1	3.6	(S) 42.1
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	1,135	(S) 75.3	(S) 7.0	(D)	(D)
Management of companies and enterprises.....	55	49	(D)	(D)	(D)	(D)
Health care services.....	621-23	536	47.5	14.8	6.6	31.1
Other nonmanufacturing .....	56, 61, 624, 71, 72, 81	731	(S) 61.1	2.6	(D)	(D)
Small nonmanufacturing companies <sup>1</sup> .....	Fewer than 15 employees	4,276	40.0	(D)	(D)	33.3

See explanatory information and SOURCE at end of table.

Table A-29. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by industry and size of company, by type of cost: 2000

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Industry and size of company	NAICS codes	Total R&D costs	Wages of R&D personnel	Materials and supplies	R&D depreciation	Other costs
		[In millions of dollars]	[Percent]			
		Distribution by size of company: [Number of employees]				
Total.....	(na)	199,539	(S) 42.2	(S) 14.1	2.0	(S) 41.7
5 to 24.....	(na)	6,862	(S) 46.7	(S) 6.7	(D)	(D)
25 to 49.....	(na)	5,008	(S) 44.4	(S) 11.1	1.9	42.6
50 to 99.....	(na)	7,259	41.0	13.7	3.3	42.1
100 to 249.....	(na)	9,020	(S) 45.1	13.1	3.6	38.2
250 to 499.....	(na)	7,479	47.7	(S) 11.8	3.0	37.5
500 to 999.....	(na)	9,074	49.8	12.8	3.2	34.2
1,000 to 4,999.....	(na)	30,636	49.3	10.5	3.5	36.7
5,000 to 9,999.....	(na)	16,768	45.9	15.4	1.7	(S) 37.0
10,000 to 24,999.....	(na)	28,653	(S) 40.9	(S) 10.6	1.6	(S) 46.9
25,000 or more.....	(na)	78,779	(S) 38.9	(S) 16.3	1.4	(S) 43.3

<sup>1</sup> The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

**KEY:** (D) = Data have been withheld to avoid disclosing operations of individual companies.  
(S) = Indicates imputation of more than 50 percent.  
(--) = Indicates data not collected.  
(na) = Not applicable.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000